

METHOD AND SYSTEM FOR DELIVERING AN IMPLANT
UTILIZING A LUMEN REDUCING MEMBER

FIELD OF THE INVENTION

5 The field of the invention relates to implantable devices, and more particularly, to a method and system for inserting a delivery sheath or catheter through a vascular body using a lumen-reducing catheter and delivering an implantable device through the delivery catheter or the
10 lumen-reducing catheter.

BACKGROUND

In many clinical situations, blood vessels are occluded with various implants to control bleeding, prevent
15 blood supply to tumors, block blood flow within an aneurysm or other vascular malformations. Intracranial aneurysms, for example, may rupture causing significant bleeding. The significant bleeding may permanently damage the surrounding brain tissue, possibly causing serious injury and death.
20 Intracranial aneurysms may be particularly difficult to access and treat when they are formed in remote cerebral blood vessels. If left untreated, hemodynamic forces of normal pulsatile blood flow can rupture fragile tissue in the area of the aneurysm causing a stroke (not needed).
25 Various implants have been used to occlude vascular sites. For example, vaso-occlusive devices are surgical implants that are delivered through a catheter in a blood vessel or vascular cavity and placed within aneurysm to form a thrombus and occlude the aneurysm. In one
30 conventional system, a guide wire is inserted through a vascular cavity. An outer catheter or sheath is guided by